SILICON
CONSULTING ENGINEERS

Ref: SIL/BBMP/EE(Yelahanka)/IR/AL/2017-18 Date: 08/12/2017

To,
The Executive Engineer,
Yelahanka Zone, Yelahanka Division,
Bruhat Bengaluru Mahanagara Plike
Bangalore 560 064.

Dear Sir:

Sub: Improvements to roads and drains at Attur Village, Attur Layout, Santoshnagara, Muneshwara Nagara in ward no. 03.

Ref: Wo.No/19/2016-17 Dated: 26.12.2016

With reference to the above cited subject, RA Bill No-01 for the work of " Improvements to roads and drains at Attur Village Attur Layout Santoshnagara Muneshwara Nagara in ward no. 03 is received by our office. In the said bill, works executed at Ward No-03 Yelhanka Upanagara Sub Division have Claimed.

The Claims under RA Bill No:01 Have checked with respect to the joint Measurement taken at Site and the claims raised, the Amount arrived to Rs.1,84,79,547.00- (Rupees One Crore Eighty Four Lakh Seventy Nine Thousand Five Hundred Forty Seven Only).

The relevant records are enclosed for your kind perusal and further needful in the matter as per Tender/Agreement Conditions and Clauses.
Thanking you & assuring you of our best service at all times.

Yours Faithfully.

For SILICON CONSULTING ENGINEERS

(KIRAN R)
Proprietor

AE W3

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BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

JNANA BHARATHI
BANGALORE - 560 056

BUB/CTL/2017-18/CA

Date: 16-09-2017

1. TESTING OF COARSE AGGREGATES (40mm):

Sub: Testing of Aggregates 40mm.

{Project*: Improvements roads and drains at Attur Village, Attur Layout, Santhosh nagara, and Muneswara nagara in Ward No. 03}

Ref: Letter No.Testing/BUB/2017-18, dated 14-09-2017

Sample supplied to lab by: M/s. S M L P Asphalts
Bettahalasuru Post,
Bangalore North

Report required for: Assistant Executive Engineer,
Yelahanka New Town Sub- Division,
BBMP, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	40 mm Sample	*Single size*	*Graded*
40mm	96.50	85-100	95 – 100
20mm	43.25	0 -20	30- 70
10mm	24.75	0 -5	10- 35
4.75mm	Nil	------	0 - 5

TABLE 1.2 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	As above	13.78%	Not to exceed 25 %
2.	Crushing value	----,,----	26.12%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

*As Furnished by Client.

The Results relate only to the items tested.

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BUB/CTE/2017-18/RS **Date: 16-09-2017**

1. TESTING OF FINE AGGREGATES:

Sub: Testing of Fine Aggregate(River sand)
{Project*: Improvements roads and drains at Attur Village, Attur Layout, Santhosh nagara, and Muneswara nagara in Ward No. 03}

Ref: Letter No.Testing/BUB/2017-18, dated 14-09-2017

Sample supplied to lab by: M/s. S M L P Asphalts
Bettahalasuru Post,
Bangalore North

Report required for: Assistant Executive Engineer,
Yelahanka New Town Sub- Division,
BBMP, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2007) Percentage Passing				Remarks
		Zone-I	Zone-II	Zone -III	Zone -IV	
10.00	**100.00**	100	100	100	100	The Sample Conforms to Grading **Zone-II**
04.75	**98.10**	90-100	90-100	90-100	95-100	
02.36	**84.25**	60-95	75-100	85-100	95-100	
01.18	**76.65**	30-70	55-90	75-100	90-100	
600. mic	**42.15**	15-34	35-59	60-79	80-100	
300.mic	**17.60**	5-20	8-30	12-40	15-50	
150.mic	**4.85**	0-10	0-10	0-10	0-15	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2007)
1.	Specific Gravity	001	**2.63**	----------

AE W3

*As Furnished by client.
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16/9/2017

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BUB/CTE/2017-18/C-

DATE: 22-09-2017

1. TEST REPORT ON CEMENT:

Sub: Testing of 43 Grade Cement Sample (IS 8112-1989).
{Project*: Improvements roads and drains at Attur Village, Attur Layout, Santhosh nagara, and Muneswara nagara in Ward No. 03}

Ref: Letter No.Testing/BUB/2017-18, dated 14-09-2017

Sample supplied to lab by: M/s. S M L P Asphalts
Bettahalasuru Post,
Bangalore North

Report required for: Assistant Executive Engineer,
Yelahanka New Town Sub- Division,
BBMP, Bangalore.

Technical Reference: IS: 4031-1988 (RA on 2009) & IS: 8112-1989.

PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 43,
Type * : O.P.C
Period of test : 15-09-2017 to 22-09-2017

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**169 min**	Shall not be less than 30 min
2	Final setting time	**274 min**	Shall not be more than 600 min
3	Fineness – Specific surface of cement (by Blaine's air permeability method)	**2786.00 Sq.cm/g**	Shall not be less than 2250 Sq.cm/g
4	Soundness test(by Le-Chatelier's method)	**1.63 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results).	**25.45 N/ Sq mm** **39.86 N/Sq mm**	Shall not be less than 23 N/Sqmm Shall not be less than 33N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

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JNANA BHARATHI
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BUB/CTE/2017-18/ C-

DATE: 07-11-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (28days Compressive Strength)
{Project*: Improvements roads and drains at Attur Village, Attur Layout, Santhosh nagara, and Muneswara nagara in Ward No. 03}

Ref: Letter No.Testing/BUB/2017-18, dated 07-11-2017

Sample supplied to lab by: M/s. S M L P Asphalts
Bettahalasuru Post,
Bangalore North

Report required for: Assistant Executive Engineer,
Yelahanka New Town Sub- Division,
BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

Location* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-10-17	07-11-17	29	22500	385	17.11	
	002	"	"	"	"	395	17.56	**17.48**
	003	"	"	"	"	400	17.78	

*As Furnished by Client.

The Results relate only to the items tested.

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BUB/CTE/2017-18/ C-

DATE: 07-11-2017

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{Project*: Improvements roads and drains at Attur Village, Attur Layout, Santhosh nagara, and Muneswara nagara in Ward No. 03}

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Report required for: Assistant Executive Engineer,
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BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

Location* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	10-10-17	07-11-17	28	22500	410	18.22	17.63
	002	"	"	"	"	395	17.56	
	003	"	"	"	"	385	17.11	

*As Furnished by Client.

The Results relate only to the items tested.

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BUB/CTE/2017-18/ C-

DATE: 07-11-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

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{Project*: Improvements roads and drains at Attur Village, Attur Layout, Santhosh nagara, and Muneswara nagara in Ward No. 03}

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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

Location* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-10-17	07-11-17	29	22500	410	18.22	18.07
	002	"	"	"	"	400	17.78	
	003	"	"	"	"	410	18.22	

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The Results relate only to the items tested.

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BUB/CTE/2017-18/ C-

DATE: 07-11-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (28 days Compressive Strength)
{Project*: Improvements roads and drains at Attur Village, Attur Layout, Santhosh nagara, and Muneswara nagara in Ward No. 03}

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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

Location* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	10-10-17	07-11-17	28	22500	400	17.78	17.48
	002	"	"	"	"	395	17.56	
	003	"	"	"	"	385	17.11	

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BUB/CTE/2017-18/ C-

DATE: 08-11-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

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{Project*: Improvements roads and drains at Attur Village, Attur Layout, Santhosh nagara, and Muneswara nagara in Ward No. 03}
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BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

Location* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-10-17	08-11-17	28	22500	380	16.89	17.11
	002	"	"	"	"	390	17.33	
	003	"	"	"	"	385	17.11	

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BUB/CTE/2017-18/ C-

DATE: 10-11-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

Location* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-10-17	10-11-17	28	22500	740	32.89	32.96
	002	"	"	"	"	750	33.33	
	003	"	"	"	"	735	32.67	

*As Furnished by Client.
The Results relate only to the items tested.

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1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (28 days Compressive Strength)
{Project*: Improvements roads and drains at Attur Village, Attur Layout, Santhosh nagara, and Muneswara nagara in Ward No. 03}

Ref: Letter No.Testing/BUB/2017-18, dated 10-11-2017

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Report required for: Assistant Executive Engineer,
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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

Location* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-10-17	10-11-17	28	22500	700	31.11	**31.48**
	002	"	"	"	"	725	32.22	
	003	"	"	"	"	700	31.11	

*As Furnished by Client.

The Results relate only to the items tested.

AE W3

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BUB/CTE/2017-18/ C-

DATE: 11-11-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (28 days Compressive Strength)
{Project*: Improvements roads and drains at Attur Village, Attur Layout, Santhosh nagara, and Muneswara nagara in Ward No. 03}
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BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

Location* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	14-10-17	11-11-17	28	22500	725	32.22	32.22
	002	"	"	"	"	735	32.67	
	003	"	"	"	"	715	31.78	

*As Furnished by Client.
The Results relate only to the items tested.

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{Project*: Improvements roads and drains at Attur Village, Attur Layout, Santhosh nagara, and Muneswara nagara in Ward No. 03}

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Report required for: Assistant Executive Engineer,
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BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

Location* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	14-10-17	11-11-17	28	22500	740	32.89	32.74
	002	"	"	"	"	730	32.44	
	003	"	"	"	"	740	32.89	

*As Furnished by Client.

The Results relate only to the items tested.

AE W3

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BUB/CTE/2017-18/ C-

DATE: 13-11-2017

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (28 days Compressive Strength)
{Project*: Improvements roads and drains at Attur Village, Attur Layout, Santhosh nagara, and Muneswara nagara in Ward No. 03}
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Report required for: Assistant Executive Engineer,
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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

Location* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-10-17	13-11-17	28	22500	765	34.00	33.41
	002	"	"	"	"	750	33.33	
	003	"	"	"	"	740	32.89	

*As Furnished by Client.
The Results relate only to the items tested.

AE W3

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AE-03

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